

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION RC-335

Effective Date: July 1, 2012

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation in **March 2014**.*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

**SnapLok Metal Roof Panels Installed Over Steel Purlins**, manufactured by

**ACI Building Systems**  
**10125 Highway 6 West**  
**Batesville, Mississippi 38606**  
**Telephone: (662) 563-4574**  
**[www.acibuildingsystems.com](http://www.acibuildingsystems.com)**

will be accepted for use in areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

This evaluation report is for SnapLok 18" wide metal panels installed over steel purlins. The metal panels are 24 or 22 gauge Galvalume coated steel. The metal panels have 18 inches (max) of coverage. The metal panels have a 1 3/4" rib height. The metal panels conform to ASTM A792, SS Grade 50 Class 1, with a minimum yield strength of 50 ksi. The metal panels can be furnished painted over an AZ 50 hot-dipped aluminum zinc alloy coating or an acrylic-coated Galvalume steel with an AZ 55 hot-dipped aluminum zinc alloy coating. The metal panels can be painted with silicone polyester products or with Kynar paint systems.

## LIMITATIONS

**Roof Framing:** The metal panels shall be installed over open steel purlins using clips for attachment of roof panels to structural.

**New Roof Framing Attachment:** The roof framing shall meet or exceed the wind pressure requirements of the International Residential Code or International Building Code and shall be installed as required for resistance to wind loads.

**Design Wind Pressures:** The design pressure negative wind load resistance shall be as specified in Tables 1 and 2.

**Installation Over an Existing Roof Covering:** Not permitted.

**Table 1**

**SnapLok 18" Panels (16 ga. minimum purlins)**

Span of 24 Ga. SnapLok panels to purlins	Design Load (psf)
1'-0" o.c.	-55.00
1'-6" o.c.	-52.50
2'-0" o.c.	-50.00
2'-6" o.c.	-47.50
3'-0" o.c.	-45.00
3'-6" o.c.	-42.50
4'-0" o.c.	-40.00

**Table 2**

**SnapLok 18" Panels (16 ga. minimum purlins)**

Span of 22 Ga. SnapLok Panels to Purlins	Design Load (psf)
1'-0" o.c.	-72.50
1'-6" o.c.	-70.83
2'-0" o.c.	-69.17
2'-6" o.c.	-67.50
3'-0" o.c.	-65.83
3'-6" o.c.	-64.17
4'-0" o.c.	-62.50

**INSTALLATION INSTRUCTIONS**

**General:** The metal panels shall be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

**Steel Purlins:** The minimum thickness of steel and the maximum spacing of the purlins shall be as specified in Tables 1 and 2.

**Underlayment:** N/A.

**Attachment of Metal Panels to the Steel Purlins:** The metal roofing panels shall be secured to the steel purlins using the number of clips and fasteners as specified below. Clips shall be located along each steel purlin. The spacing of the clips shall be as specified in Tables 1 and 2. The fasteners for the clips shall be long enough to ensure a minimum penetration of 3 pitches of thread below the steel purlin. Refer to Figure 1 in this evaluation report.

**Panel Side Laps:** Ribs to be snapped into place over each clip location.

**Panel Edges to the Steel Purlins:** Clips consisting of a one piece assembly, 3 ½ inches wide, 1 7/8 inches high, minimum thickness No. 18 MSG. One clip is located at each panel intersection. Fasteners used to attach panel clips to purlins shall be No. 10-16 by 1 inch long plated steel pancake head No. 2 Phillips drive with a No. 3 self drilling point or ¼ -14 x 1" long self-drilling, self-tapping, pancake head steel screws. Two fasteners shall be provided to secure each clip.

**Trims, Closures, and Accessories:** Components, such as the termination zeels, eave trim, rake trim, ridge trim, hip trim, and valley trim shall be installed as required by the manufacturer.

**Note:** The manufacturer's installation instructions shall be available on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.

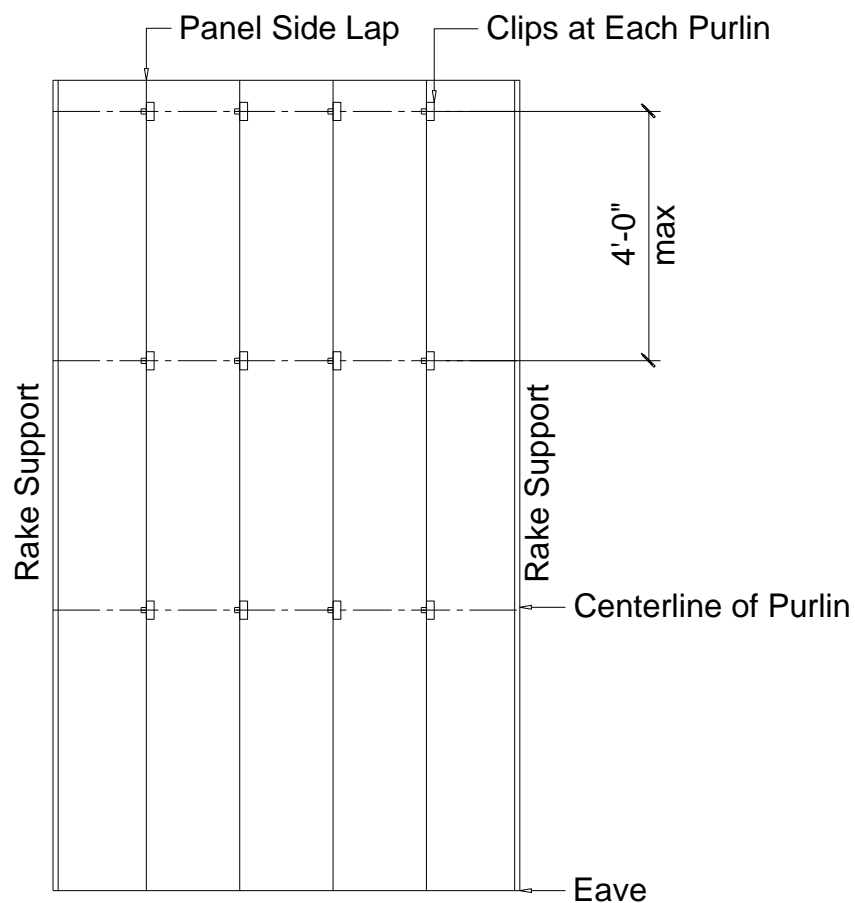
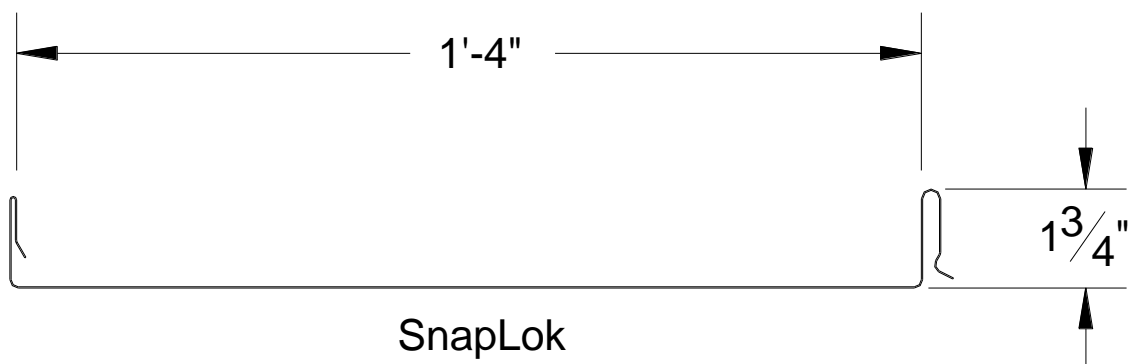
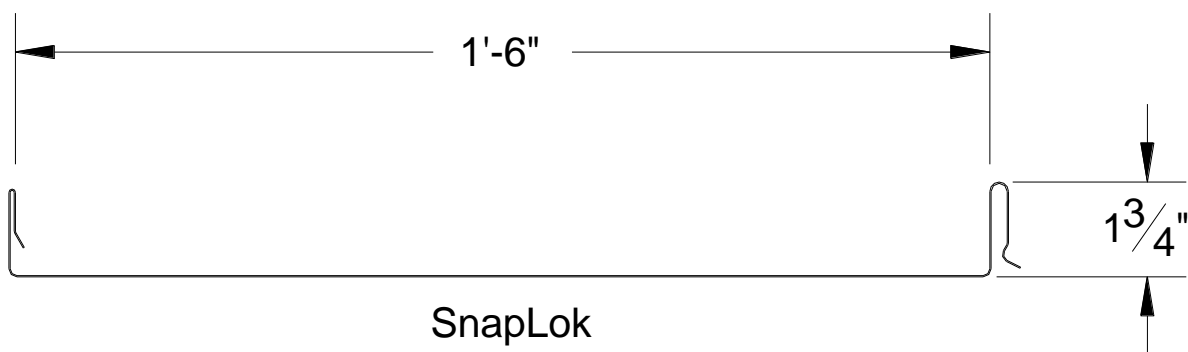


Figure 1: Clip spacing for SnapLok Roof Panel.



**16" SnapLok Panel Profile**



**18" SnapLok Panel Profile**

Figure 2. SnapLok Roof Panel Profiles